

## SUPPLEMENTAL DRILLING DATA

### UNION OIL COMPANY OF CALIFORNIA

#### WELL NO.1 BARCLAY FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	770'
Delaware Group	4450'
Bone Springs	8250'
Strawn	13,290'
Atoka	13,480'
Atoka Limestone	13,630'
Morrow	13,920'
Middle Morrow	14,490'
Lower Morrow	14,850'
Mississippian	15,300'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware	Oil
Bone Springs	Oil
Atoka	Gas
Morrow	Gas

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing design data sheets are attached.

13-3/8" casing will be cemented with approximately 500 sacks of Class "C" cement with 4% gel followed by 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

10-3/4" casing to be cemented with approximately 1500 sacks of Light followed by 250 sacks of Class "C". Cement to circulate.

7-5/8" casing will be cemented in two stages. First stage will be 900 sacks of Class "H" 50/50 Poz. Second stage will be 800 sacks of Light followed with 200 sacks of Class "H" 50/50 Poz.

5" production liner will be cemented with approximately 300 sacks of Class "H" 50/50 Poz. Cement to circulate liner.